

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P893050

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRA-UNV-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

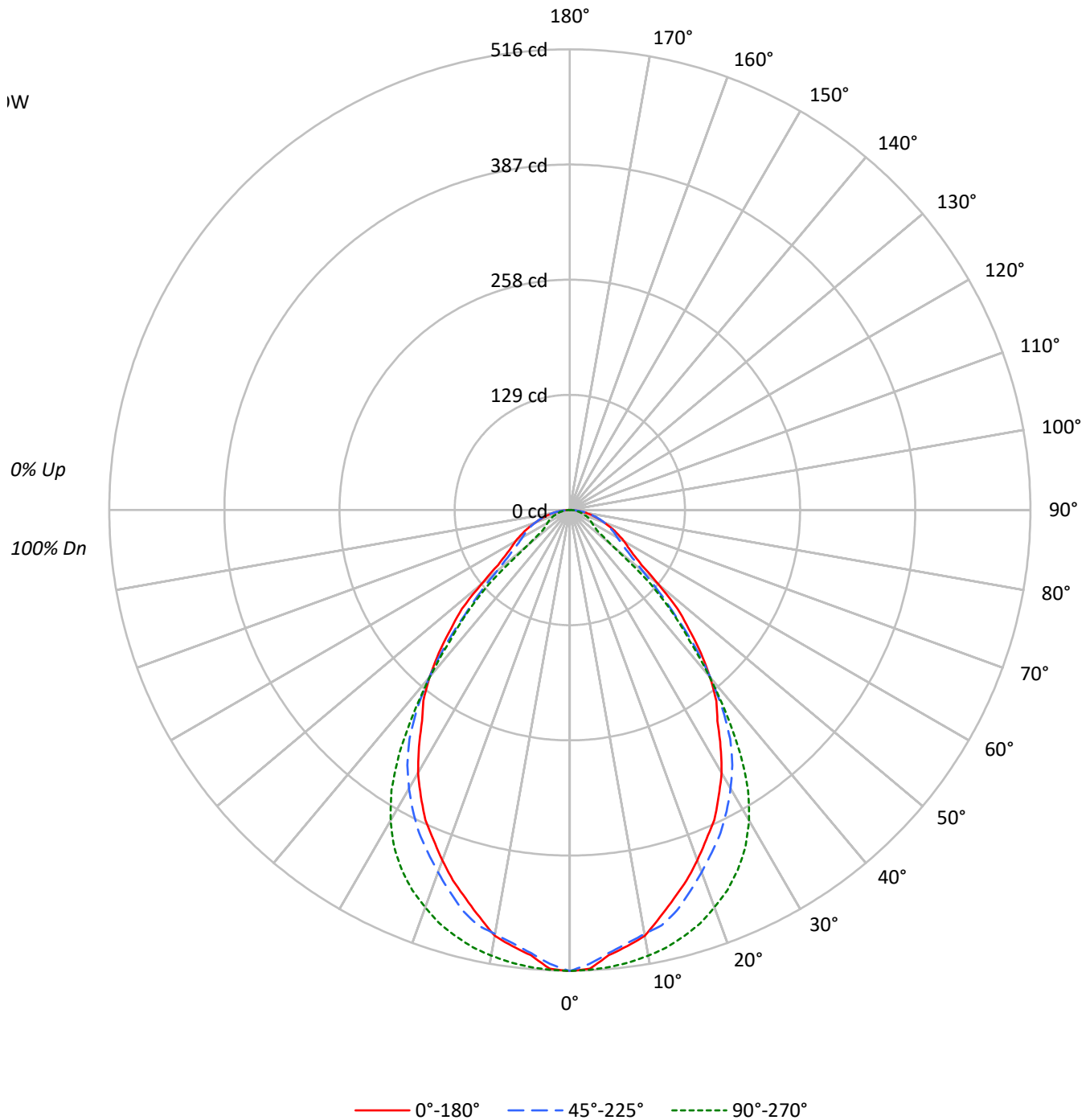
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893050
CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-LOW-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7386	7386	7386
5°	7187	7154	7378
10°	7035	7003	7362
15°	6672	6876	7319
20°	6356	6571	7208
25°	6045	6304	7024
30°	5616	5950	6632
35°	5037	5468	5817
40°	4562	4573	4547
45°	3816	3379	3296
50°	2882	2379	1349
55°	2167	1903	850
60°	2014	1751	818
65°	1875	1747	819
70°	1715	1715	807
75°	1625	1669	779
80°	1499	1582	799
85°	1313	1379	870

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3905 cd/sqm



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CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	5.7
10°-20°	131.4	15.7
20°-30°	186.4	22.2
30°-40°	192.0	22.9
40°-50°	134.1	16.0
50°-60°	64.3	7.7
60°-70°	45.1	5.4
70°-80°	28.2	3.4
80°-90°	8.7	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	365.5	43.6
0°-40°	557.5	66.5
0°-60°	755.9	90.2
0°-90°	838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	500	500	498	511	514	47
15°	450	454	464	478	494	127
25°	383	387	399	426	445	175
35°	288	296	313	320	333	182
45°	189	193	167	158	163	145
55°	87	83	76	49	34	81
65°	55	52	52	39	24	55
75°	29	29	30	26	14	31
85°	8	8	8	8	5	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.3	516.3	516.3	516.3	516.3
2.5°	514.3	512.7	508.9	515.9	515.4
5°	500.5	499.8	498.2	511.3	513.8
7.5°	492.7	491.3	489.5	503.8	510.9
10°	484.3	485.9	482.1	495.3	506.8
12.5°	467.0	471.2	476.3	486.5	501.7
15°	450.5	453.8	464.3	477.6	494.2
17.5°	435.0	438.9	447.9	467.9	485.6
20°	417.5	422.8	431.6	457.1	473.5
22.5°	399.4	404.3	415.3	442.7	461.0
25°	383.0	386.9	399.4	426.4	445.0
27.5°	361.3	368.5	380.3	406.4	426.0
30°	340.0	346.1	360.2	382.2	401.5
32.5°	314.3	323.2	338.8	355.6	371.7
35°	288.4	296.2	313.1	319.7	333.1
37.5°	269.5	271.6	281.2	280.4	288.0
40°	244.3	248.6	244.9	234.9	243.5
42.5°	217.2	222.2	207.2	195.6	198.7
45°	188.6	193.0	167.0	158.5	162.9
47.5°	163.8	163.4	134.7	129.0	122.8
50°	129.5	133.7	106.9	96.2	60.6
52.5°	101.1	102.7	88.1	61.5	39.8
55°	86.9	82.6	76.3	48.8	34.1
57.5°	77.2	71.9	67.6	45.4	31.1
60°	70.4	64.4	61.2	43.1	28.6
62.5°	62.7	58.0	56.8	41.1	26.3
65°	55.4	51.8	51.6	39.3	24.2
67.5°	48.0	46.0	46.6	37.0	21.8
70°	41.0	40.6	41.0	34.1	19.3
72.5°	35.0	34.6	35.7	30.3	16.5
75°	29.4	29.0	30.2	26.1	14.1
77.5°	23.4	23.7	24.5	21.7	11.8
80°	18.2	18.2	19.2	17.0	9.7
82.5°	13.0	13.2	13.7	12.5	7.6
85°	8.0	8.0	8.4	8.3	5.3
87.5°	2.7	3.1	3.6	3.9	2.7
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.60	13.95	12.96	14.26	14.58	8.93	10.28	9.29	10.59	10.91
	3H	14.33	15.54	14.71	15.87	16.23	10.90	12.11	11.28	12.44	12.80
	4H	15.00	16.13	15.41	16.48	16.86	11.61	12.73	12.01	13.09	13.47
	6H	15.51	16.55	15.92	16.92	17.31	12.13	13.17	12.54	13.54	13.93
	8H	15.68	16.67	16.11	17.06	17.46	12.31	13.30	12.74	13.69	14.09
	12H	15.79	16.73	16.22	17.12	17.55	12.45	13.40	12.88	13.78	14.21
4H	2H	13.13	14.25	13.53	14.60	14.99	10.55	11.67	10.95	12.03	12.41
	3H	15.10	16.03	15.51	16.44	16.84	12.73	13.66	13.14	14.06	14.46
	4H	15.90	16.74	16.34	17.16	17.60	13.61	14.44	14.04	14.86	15.30
	6H	16.55	17.27	17.01	17.72	18.18	14.25	14.97	14.71	15.42	15.88
	8H	16.77	17.44	17.23	17.89	18.36	14.46	15.13	14.92	15.58	16.05
	12H	16.92	17.52	17.40	18.00	18.47	14.61	15.21	15.10	15.70	16.17
8H	4H	16.19	16.86	16.66	17.31	17.78	14.26	14.93	14.72	15.38	15.85
	6H	16.97	17.53	17.47	18.02	18.50	15.12	15.67	15.62	16.17	16.65
	8H	17.27	17.77	17.79	18.28	18.78	15.44	15.94	15.96	16.46	16.95
	12H	17.51	17.95	18.02	18.44	19.01	15.71	16.15	16.22	16.64	17.21
12H	4H	16.21	16.81	16.69	17.29	17.76	14.33	14.93	14.81	15.41	15.88
	6H	17.02	17.52	17.54	18.04	18.53	15.25	15.75	15.77	16.27	16.76
	8H	17.39	17.83	17.90	18.32	18.89	15.67	16.11	16.18	16.60	17.17